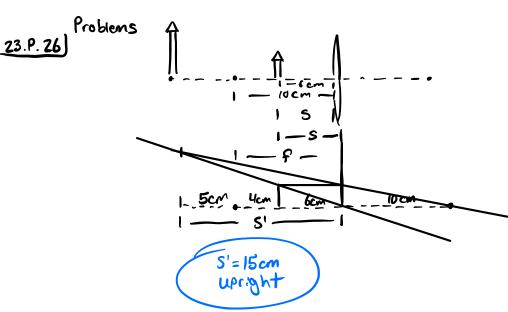
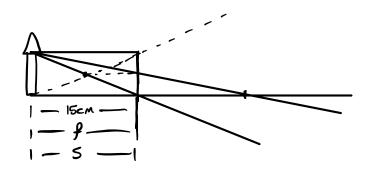
Problems: 26,27,32,33



23.P.27



7.5cm

$$R = 4.0 cm \qquad \frac{n_1 + n_2}{5} = \frac{n_2 - n_1}{R} \qquad n_1 = 1.69$$

$$R = 4.0 cm \qquad \frac{n_1 + n_2}{5} = \frac{n_2 - n_1}{R} \qquad n_2 = 1.00$$

$$R = -4 c$$

$$R = -4 c$$

$$S = 2 c$$

$$\frac{n_1+n_2}{S}=\frac{n_2-n_1}{R}$$

$$n_1 = 1.00$$
 $n_2 = 1.00$
 $R = -4cm$
 $S = 2cm$

$$\frac{nz}{s^1} = \frac{n_2 - h_1}{R} = \frac{n_1}{s}$$

$$\frac{1}{5!} = \frac{h_2 - h_1}{R} - \frac{h_1}{3}$$

1.5cm benewth plastic bourier

$$\frac{1}{5!} = \frac{h_2 - h_1}{\frac{2}{2}} - \frac{h_1}{\frac{3}{2}}$$

$$S' = \left(\frac{\frac{n_2 - h_1}{R} - \frac{h_1}{5}}{n_2}\right)^{-1} = \left(\frac{\frac{1.00 + 1.69}{-4cm} - \frac{1.69}{2cm}}{1.00}\right)^{-1} = -1.5cm$$

$$\frac{n_1 + n_2}{S} = \frac{n_2 - n_1}{R}$$

$$\frac{n_2}{S'} = \frac{n_2 - n_1}{R}$$

$$\frac{n_2}{S'} = \frac{n_2 - n_1}{R}$$

$$\frac{1}{S'} = \frac{n_2 - n_1}{R} - \frac{n_1}{S}$$

$$\frac{1}{S'} = \frac{n_2 - n_1}{Rn_2} - \frac{n_1}{Sn_2}$$

$$\frac{1}{S'} = \frac{1.33 - 1.00}{25cn(1.33)} - \frac{1.00}{20cn(1.33)}$$

$$\frac{1}{S'} = \frac{36.14cn}{1.33}$$

$$\frac{1}{S'} = \frac{1.33 - 1.00}{25cn(1.33)} - \frac{1.00}{20cn(1.33)}$$

36.14cm away